



样品承认书

SPECIFICATION FOR APPROVAL

客 户: 超毅电子
(Customer)

品 名: 铝电解电容器
(Product Name)

型 号: VZ2
(Series)

日 期: 2018 年 5 月 12 日
(Date)

贵公司承认:
Approval Signature

批 准 :
Approved

审 核:
Checked

制 作:
Prepared

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Leaguer product specification content

华冠电容规格承认书目录

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1、 Parts lists 物料清单

[illegible]

2、Explanation of Leaguer Part Number 代码解释



型号
Series



额定电压
R.W.Voltage



静电容量
N.Capacitance



容量允许误差
Cap.Tol



尺寸
Case Size



引线型式
Lead Process

产品型号 Series	额定电压 R.W.Voltage (V)	代号 Code	标称电容量 Capacitance (μ F)	代号 Code	标称电容量 允许偏差 Cap.Tol	代号 Code	尺寸 Case Size	代号 Code	引线型式 Lead Process	代号 Code
VS1	4	0G	0.1	0R1	$\pm 5\%$	J	3 $\times$ 5	0305	直线切脚 Straight cut 	C1
VS2	6.3	0J	0.22	R22	$\pm 10\%$	K	4 $\times$ 5	0405		
VT1	10	1A	0.33	R33			5 $\times$ 5	0505		
VTD	16	1C	0.47	R47	$\pm 20\%$	M	6.3 $\times$ 5	0605		
VZ1	25	1E	1	010			4 $\times$ 7	0407		
VZ2	35	1V	2.2	2R2	Others	T	5 $\times$ 7	0507		
VBP	50	1H	3.3	3R3			6.3 $\times$ 7	0607		
MS1	63	1J	4.7	4R7			8 $\times$ 7	0807		
MS2	80	1K	10	100			5 $\times$ 11	0511		
MS2	100	2A	22	220			6.3 $\times$ 11	0611		
MT1	160	2C	33	330			8 $\times$ 12	0812	成形切脚 Forming cut 	CB
MZ1	200	2D	47	470			8 $\times$ 14	0814		
MBP	250	2E	100	101			8 $\times$ 16	0816		
MLL	350	2V	220	221			8 $\times$ 20	0820		
MHF	400	2G	330	331			10 $\times$ 12	1012		
SS1	450	2W	470	471			10 $\times$ 16	1016		
ST1			1000	102			10 $\times$ 20	1020		
RS1			2200	222			10 $\times$ 25	1025		
RS2			3300	332			10 $\times$ 30	1030		
RT2			10000	103			13 $\times$ 14	1314		
RT3			470000	474			13 $\times$ 20	1320		
RT4							13 $\times$ 25	1325		
SBP							13 $\times$ 30	1330		
SLZ							13 $\times$ 36	1336		
SLL							13 $\times$ 40	1340		
RNP							16 $\times$ 16	1616	折曲切脚 Kink cut 	CK
RHF							16 $\times$ 20	1620		
RSR							16 $\times$ 25	1625		
							16 $\times$ 32	1632		
							16 $\times$ 36	1636		
							18 $\times$ 20	1820		
							18 $\times$ 26	1826		
							18 $\times$ 36	1836		
							18 $\times$ 40	1840		
							22 $\times$ 32	2232		
							22 $\times$ 36	2236		
							片式 SMD		编带 Taped 	F(1) F(2)
							4 $\times$ 5.4	0405		
							5 $\times$ 5.4	0505		
							6.3 $\times$ 5.4	0605		
							6.3 $\times$ 7.7	0607	片式产品 v-chip	V (1)
							8 $\times$ 10.2	0810		
							10 $\times$ 10.2	1010		

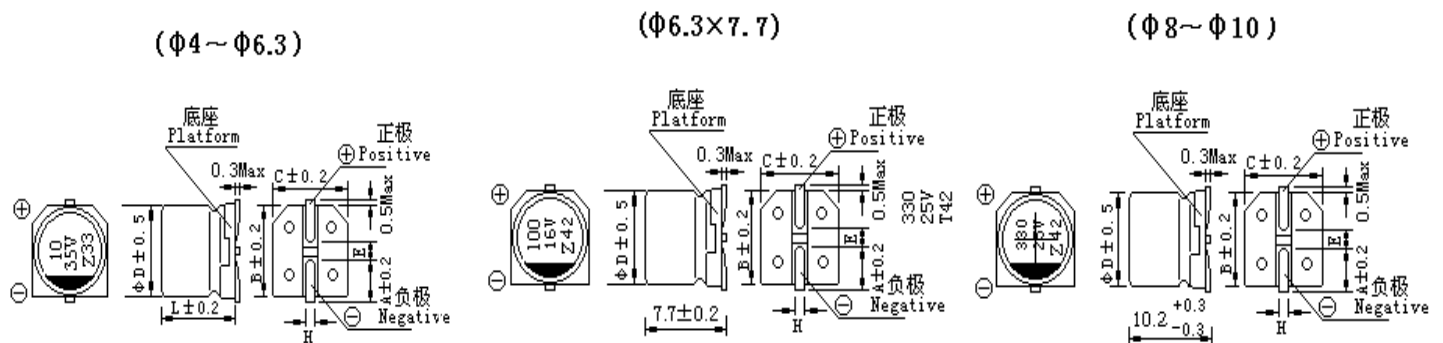
3、VZ2 Series (105℃, 2000H)

(Lower Impedance 低阻抗品)

(1)、Standard Rating 基本参数

No.	Item	Ratings									
1	Temperature Range 使用温度范围	- 55~+105℃									
2	Rated Voltage Range 额定电压范围	6.3~100V									
3	Capacitance Range 标称容量范围	1.0~1500 μ F									
4	Capacitance Tol 容量容许偏差	$\pm 20\%$ (120Hz, 20℃)									
5	Surge Voltage 浪涌电压(V.DC)	R.V.	6.3	10	16	25	35	50	63	80	100
		S.V.	7.3	11.5	18.4	29	40	58	73	92	115

(2)、Dimension & Appearance 外形尺寸(mm)



尺寸	4×5.4	5×5.4	6.3×5.4	Φ 6.3×7.7	Φ 8×6.2	Φ 8×10.2	Φ 10×10.2	Φ 10×12.5
壳号	M	N	P	Q	E	R	S	K
A	1.8	2.2	2.6	2.6	2.9	2.9	3.3	3.3
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3
D	4.0	5.0	6.3	6.3	8.0	8.0	10	10
E	1.0	1.3	1.8	1.8	3.1	3.1	4.5	4.5
L	5.4	5.4	5.4	7.7	6.2	10.2	10.2	12.5
H	0.5~0.9				0.9~1.1			

(3)、Electrical Requirements 电性能要求

1	Capacitance Tolerance 容量允许偏差	± 20% at 120Hz,20℃																															
2	Operation Temperature Range 使用温度范围	6.3V~100V -55℃~+105℃																															
3	Leakage Current 漏电流	After DC Voltage is applied to capacitor through the series protective resistance(1K Ω),and then terminal voltage may reach the rated working voltage. The leakage current when measured after 2 minutes (6.3~100V) shall be below the value of the following equation. 将电容器串联 1K Ω 电阻后，施加额定直流电压 2 分钟，测量漏电流满足以下要求。 6.3~100V I≤0.01CV or 3 μ A(取较大值) Whichever is greater Where I=Leakage Current(μ A) C=Capacitance(μ F) V=Rated DC Working Voltage(V)																															
4	Dissipation Factor 损耗角正切值 (Tan δ at 120Hz,20℃)	<table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td></tr><tr><td>Tan δ (max)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.08</td><td>0.08</td><td>0.07</td></tr></table>										Rated Voltage	6.3	10	16	25	35	50	63	80	100	Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07		
Rated Voltage	6.3	10	16	25	35	50	63	80	100																								
Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07																								
5	Low Temperature Characteristics 低温特性 (at 120Hz)	<table><tr><td colspan="2">Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td></tr><tr><td>Impedance Ratio</td><td>Z(-40℃)/ Z(+20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table>										Rated Voltage		6.3	10	16	25	35	50	63	80	100	Impedance Ratio	Z(-40℃)/ Z(+20℃)	3	3	3	3	3	3	3	3	3
Rated Voltage		6.3	10	16	25	35	50	63	80	100																							
Impedance Ratio	Z(-40℃)/ Z(+20℃)	3	3	3	3	3	3	3	3	3																							
6	Rated Ripple Current 纹波电流 (at 100KHz,105℃)	Page 6																															

(4)、Standard sizes & Maximum permissible ripple current & impedance

规格壳号、最大允许纹波电流及阻抗值 (尺寸编号参照页码 4)

V μF	6.3(0J)			10(1A)			16(1C)			25(1E)			35(1V)			50(1H)		
	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃
1.0																M	4.5	60
2.2																M	4.5	60
3.3																M	4.5	60
4.7										M	2.2	80	M	2.2	80	N	3.5	85
10							M	2.2	80	M	2.2	80	N	1.2	150	P	1.8	165
22	M	2.2	80	M	2.2	80	N	1.2	150	P	0.58	230	P	0.58	230	Q	1.6	185
33	N	1.2	150	N	1.2	150	P	0.58	230	P	0.58	230	P E	0.58 0.40	230 230	Q	1.6	185
47	N	1.2	150	P	0.58	230	P	0.58	230	Q	0.34	280	Q	0.34	280	R S Q	0.4 0.3 1.6	300 342 232
100	P	0.58	230	Q N	0.34 1.2	280 150	Q P	0.34 0.52	280 230	Q E	0.34 0.26	280 300	Q	0.34	348	S R	0.22 0.4	670 300
150	P	0.58	230	Q	0.34	280	Q	0.34	280	R	0.17	450	S	0.10	670	S	0.20	670
220	Q P	0.34 0.58	280 243	Q	0.34	280	R Q	0.17 0.34	450 384	R	0.17	450	S R	0.17 0.17	670 587	S	0.18	670
330	Q	0.34	280	R	0.17	450	R	0.17	450	S	0.10	670	S	0.10	670			
470	R	0.17	450	R	0.17	450	S R	0.10 0.17	670 450	S	0.10	670	K	0.10	760			
1000	S R	0.10 0.17	670 450	S	0.10	670	S	0.10	670									
1500	S	0.10	670															

V μF	63V (1J)			80V (1K)			100V (2A)		
	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃	尺寸 编号	阻抗 值Ω 100KHz 20℃	纹波 电流 mA 100KHz 105℃
3.3				N	5	25			
4.7	N	3	50	P	3	40			
10	P Q	1.5 1.2	80 120	Q E	2.4 2.4	60 60			
22	Q E	1.2 1.2	120 120	R	1.3	130	R	1.3	130
33	R	0.65	250	R	1.3	130	S	0.7	200
47	R	0.65	250	S	0.7	200			
68	R	0.65	250						

100	S	0.35	400						
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(5)、Experiment the method and request 试验方法及要求

No.	Item 项目	Performance Characteristics 性能要求	Test 测试		
			Step	Test Temperature	Time
1	Characteristics at High and Low Temperature 高低温特性	<u>Step2 (阶段 2)</u> Impedance Ratio: (阻抗比) Less than the item 5 Value of page 5 Ratio against step 1 相对于阶段 1 比值小于第 5 页第 5 项 中的值 <u>Step4 (阶段 4)</u> Leakage Current: (漏电流) Less than 800% of the value of item 3 at P5 小于或等于第 5 页第 3 项规定值 8 倍 Capacitance Change: (容量变化) Within $\pm 20\%$ of the value in step1 与阶段 1 的值比变化率在 $\pm 20\%$ 范围 内	1	$20 \pm 2^{\circ}\text{C}$	3min
			2	$-40 \pm 3^{\circ}\text{C}$	30min
			3	$20 \pm 2^{\circ}\text{C}$	3min
			4	$105 \pm 2^{\circ}\text{C}$	30min
			5	$20 \pm 2^{\circ}\text{C}$	3min
2	Surge Voltage Test 浪涌测试	Leakage Current: (漏电流) Less than the value of item 3 of page 5 $\leq$ 第 5 页第 3 项规定值 Capacitance Change: (容量变化) Within $\pm 15\%$ of the initial measured value 与初始测量值比变化率 $\pm 15\%$ 范 围内 Tangent of Loss Angle: (损耗角正切值) Less than 130% of specified value $\leq$ 第 5 页第 4 项规定值的 130%.	After surge voltage(the value of item 3 of P4) applied at a cycling rate of 30 seconds charge and 5.5 minutes discharge 1000 successive test cycle. Test temperature: $15 \sim 35$ $^{\circ}\text{C}$. 对电容器施加浪涌电压, 每充 电 30s, 放电 5min30sec, 连续循环 1000 次后测量。测试温度: $15 \sim 35$ $^{\circ}\text{C}$ 。		
3	Tensile Test 拔出力测试	No broken and undamaged 无损坏	After fixing the capacitors, the terminals are pulled in vertical direction. Load is gradually increased until it reached 5N and held for 10 sec. 将电容器固定, 在电容器的垂直方 向上逐渐增加砝码至 5N, 然后持 续 10s 结束。		

No.	Item 项目	Performance Characteristics 性能要求	Test 测试
4	Solderability 可焊性	More than 95% of the terminal surface shall be covered with new solder. 引线端子表面 95%以上的面积附着新焊料。	Temperature: $235 \pm 2^{\circ}\text{C}$ (温度) Immersing Time: $2 \pm 0.1\text{sec}$ (浸入时间) Immersing Depth: Dip the terminal for Approx. 0.5~1mm thick 浸入深度: 浸入引线约 0.5~1mm Flux: Approx. 25% rosin in Ethanol 助焊剂: 约 25%的松香溶于酒精
5	Vibration 振动	Capacitance: (容量) During test, measured value shall be stabilized (measured several times within 30 min. Before completion of test) 在测试的 30 分钟内, 观测电容量测试值无明显变化 Appearance: (外观) No significant change can be observe 无可见损伤 Capacitance change: (容量变化) Within $\pm 10\%$ of initial measured value 容量变化率在 $\pm 10\%$ 范围内	Frequency: 10~55Hz reciprocation for 1 min 频率: 10 到 55 Hz, 每分钟互换 Total amplitudes: 0.75mm 振幅: 0.75mm Direction and during of vibration: 3 orthogonal directions, Mutually each for 2hrs total 6hrs 在互相垂直的 3 个方向上, 每个方向振动 2 小时, 共 6 小时。
6	Solder Heat-Resistance Test 耐焊接热	Appearance: (外观) No significant change can be observe 无可见损伤 Capacitance change: (容量变化) Within $\pm 10\%$ of initial measured value 容量变化率在 $\pm 10\%$ 范围内	After reflow soldering the capacitor shall be restored to 20°C within two hours or over an hour. 将电容器通过回流焊后, 在室温恢复 1~2 小时。
7	Solvent Resistance of the Marking 标示耐溶剂性	There shall be no damage and legibly marked. Marking can be deciphered easily. 标示应清晰可辨	Class of Reagent: Isopropyl Alcohol 试剂: 异丙醇 Test Temperature: $20 \sim 25^{\circ}\text{C}$ 温度: $20 \sim 25^{\circ}\text{C}$ Immersing Time: 5 minutes 浸入时间: 5 分钟
8	Humidity Test 潮湿试验	Leakage Current: (漏电流) Less than the value of item 3 of page 5 $\leq$ 第 5 页第 3 项规定值 Capacitance Change: (容量变化) Within $\pm 20\%$ of the initial measured value 与初始测量值比变化率在 $\pm 20\%$ 范围内。	Capacitors shall be exposed for $500 \pm 6\text{hrs}$ in an atmosphere of 90~95% R.H. at 40°C . And then the capacitor shall be subjected to standard atmospheric conditions for 1-2 hours, after which measurements shall be made.

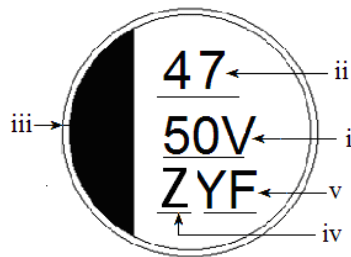
		Tangent of Loss Angle: (损耗角正切值) Less than 120% of the value of item 4 of page 5 ≤第 5 页第 4 项规定值的 1.2 倍 Appearance: (外观) No significant change can be observed. 无可见损伤	电容器放置在温度 40℃、湿度 90~95%的环境下 500±6 小时，然后放置在标准环境中恢复 1-2 小时
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No.	Item 项目	Performance Characteristics 性能要求	Test 测试
9	High Temperature Load Life Test 高温负荷寿命	Leakage Current: (漏电流) Less than the value of item 3 of page 5 ≤第 5 页第 3 项规定值 Capacitance Change: (容量变化) Within ±20% of the initial measured value (≤16V: ±25% of the initial value)与初始测量值比变化率不大于 20%(≤16V: ±25%初始测量值) Tangent of Loss Angle: (损耗角正切值) Less than 200% of the value of item 4 of page 5 ≤第 5 页第 4 项规定值的 2 倍 Appearance: (外观) No significant change can be observed. 无可见损伤	Test Temperature 温度: 105±2℃ Test Duration: (Size Code:M,N,P) 2000 hours 试验持续时间: 2000 小时 (Size Code:Q,E,R,S) 2000 hours 试验持续时间: 2000 小时 Applied Voltage: Rated Voltage 施加电压: 额定电压 After subjected to the test, the capacitors shall be left at the room temperature for 16 hours prior to the measurement. 试验完成后, 电容器在测量前应在室温中恢复 16 小时。
10	High Temperature Unload Life Test 高温储存	Leakage Current: (漏电流) Less than 200% of the value of item 3 of page 5 ≤第 5 页第 3 项规定值的 2 倍 Capacitance Change: (容量变化) Within ±20% of the initial measured value 与初始测量值比变化率在±20%范围内 Tangent of Loss Angle: (损耗角正切值) Less than 120% of specified value of Item 4 of page 5 ≤第 5 页第 4 项规定值的 1.2 倍 Appearance: (外观) No significant change can be observed. 无可见损伤	Test Temperature 温度: 105±2℃ Test Duration: 1000 hours 试验持续时间: 1000 小时 After subjected to the test, the capacitors shall be left at the room temperature for 16 hours prior to the measurement. 试验完成后, 电容器在测量前应在室温中恢复 16 小时。

4、Marking 标示

- a) Following items shall be marked on the body of capacitor. The marking color is black.

电容器的本体上印刷以下内容，颜色为黑色。



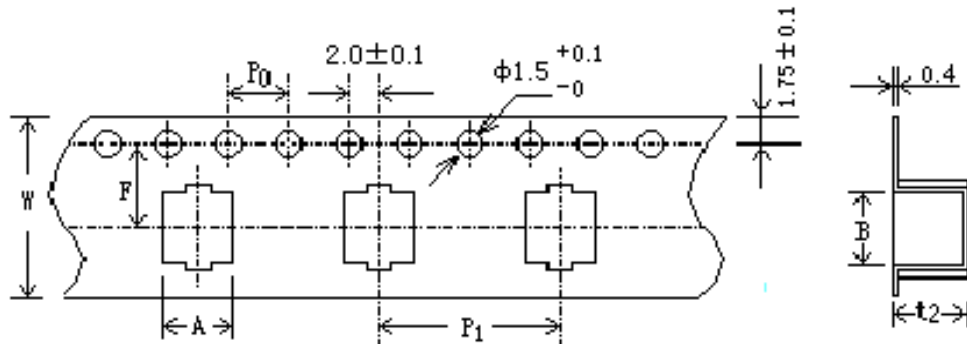
- | | | |
|------|-------------------|------|
| i. | Rated Voltage | 额定电压 |
| ii. | Capacitance | 额定容量 |
| iii. | Negative Polarity | 负极标示 |
| iv. | Series | 系列代码 |
| v. | Code | 代码 |
- b) Following items should be marked on the taping reel.

电容器的编带包装盘上印刷以下内容。

- | | | |
|------|------------------------------------|--------------|
| i. | Rated Voltage and Capacitance | 额定电压&容量 |
| ii. | Manufacture's Name | 制造商名称 |
| iii. | Customer's Part Number(if request) | 客户料号（客户有要求时） |
| iv. | Series Mark | 系列名称 |
| v. | Lot Number | 制造批号 |
| vi. | Packing quantity | 编带数量 |

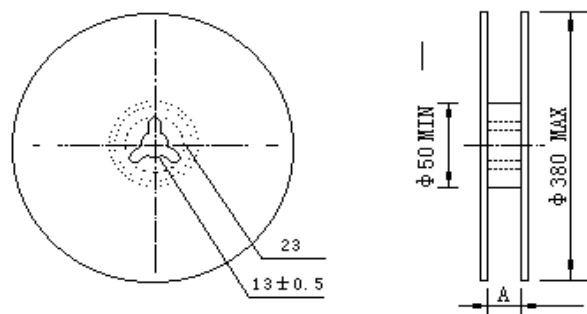
5、Taping shapes & Dimensions 编带尺寸（单位：mm）

● Carrier tape 编带



$\phi D \times L$	$W \pm 0.3$	$A \pm 0.2$	$B \pm 0.2$	$F \pm 0.1$	$P_1 \pm 0.1$	$t_2 \pm 0.2$
$\phi 4 \times 5.4$	12.0	4.7	4.7	5.5	8.0	5.8
$\phi 5 \times 5.4$	12.0	6.0	6.0	5.5	12.0	5.8
$\phi 6.3 \times 5.4$	16.0	7.0	7.0	7.5	12.0	5.8
$\phi 6.3 \times 7.7$	16.0	7.0	7.0	7.5	12.0	8.4
$\phi 8 \times 6.2$	16.0	8.7	8.7	7.5	12.0	6.8
$\phi 8 \times 10.2$	24.0	8.7	8.7	11.5	16.0	11.0
$\phi 10 \times 10.2$	24.0	10.7	10.7	11.5	16.0	11.0
$\phi 10 \times 12.5$	24.0	10.7	10.7	11.5	16.0	14.0

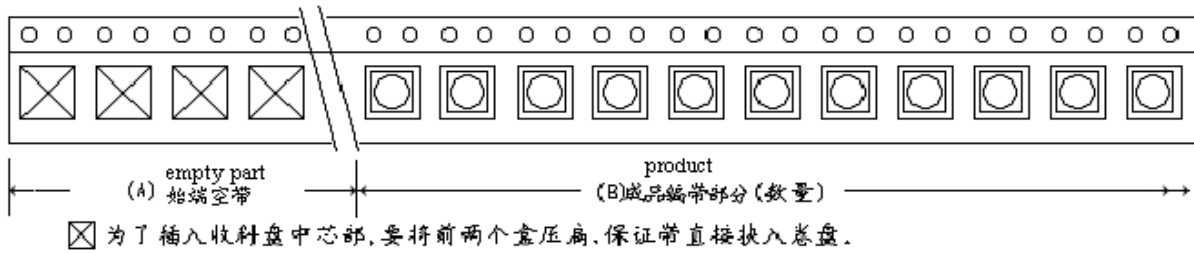
● Reel 编带包装盘



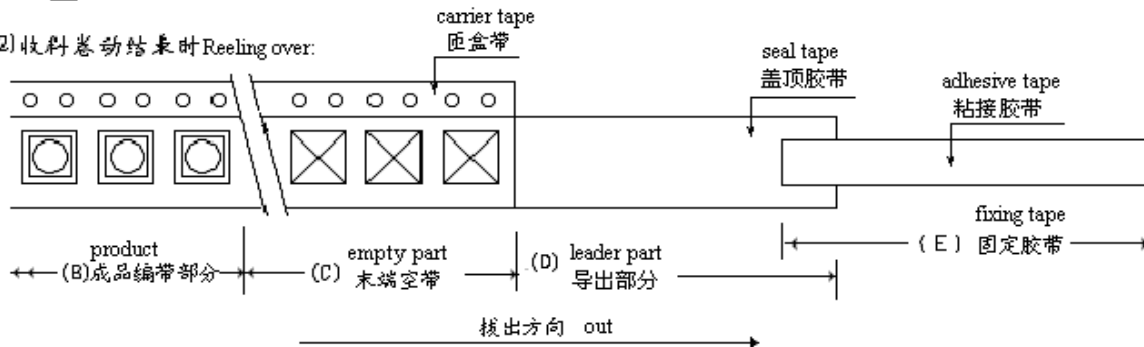
ϕD	4	5	6.3	8	10
A	14	14	18	26	26

6、Details of Carrier Tape 编带补充说明

(1) 收料卷动开始时 Reeling begin:



(2) 收料卷动结束时 Reeling over:



Last reeling empty part of carrier tape shall be more than 10cm.

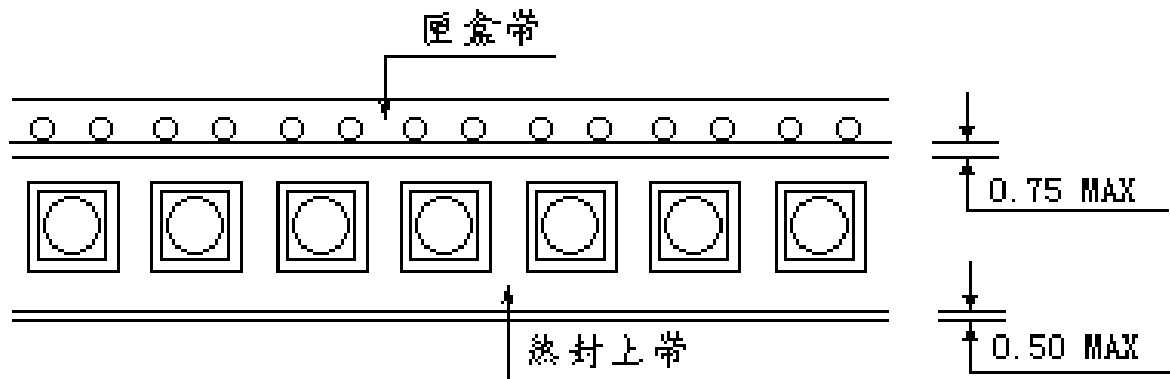
每盘编带产品的末端空带不少于 10cm。

Leader part of seal tape shall be more than 20cm.

结尾处盖顶胶带的导出部分不少于 20cm。

Adhesive tape fixing the end of the leader part shall be approx. 10cm.

粘接盖顶胶带的固定胶带长约 10cm。



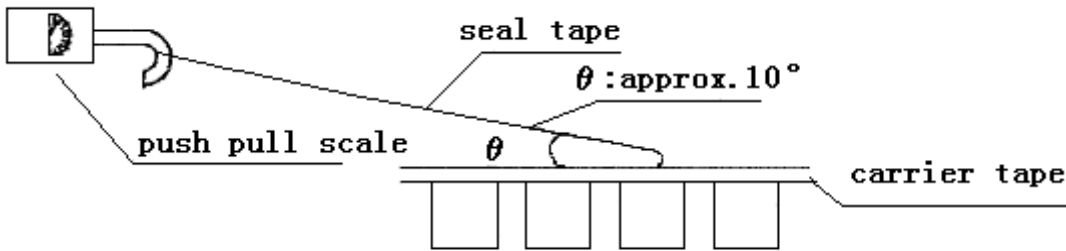
Deviation between carrier tape and seal tape shall be less than 0.5mm

盖顶胶带的偏移不超过 0.5mm.

Seal tape shall not cover on the feeling hoes .

盖顶胶带不可覆盖导带孔的部分.

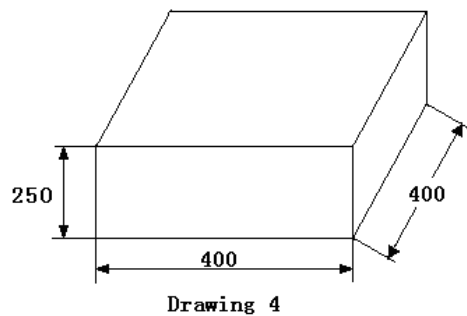
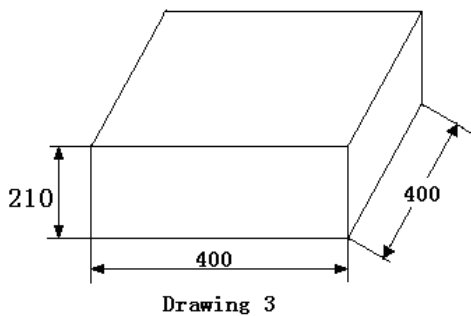
7、Adhesion Test 编带粘接力测试



Reasonable pulling strength: 0.092~0.882N; Pulling speed: 200~300mm/min.

适当的粘接力强度：0.092~0.882N；测试速度：200~300mm/min。

8、Dimensions of Outer Carton Box 外包装箱尺寸



9、Packing Quantity 包装数量

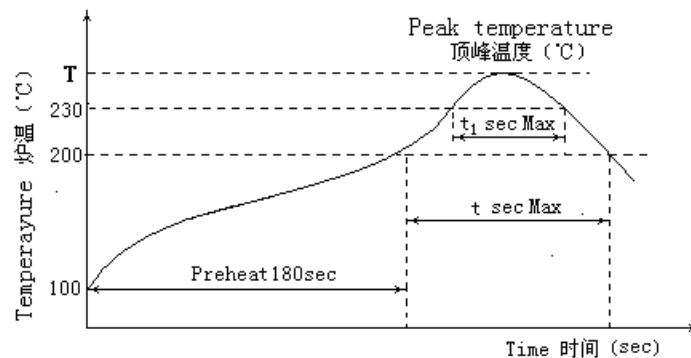
Size	Quantity/one reel (pcs)	Quantity/one box (pcs)	Outer box size
Φ 4×5.4	2000	20000	Drawing 3
Φ 5×5.4	1000	10000	Drawing 3
Φ 6.3×5.4	1000	10000	Drawing 4
Φ 6.3×7.7 (8×6.2)	1000	10000	Drawing 4
Φ 8×10.2	500	3000	Drawing 3
Φ 10×10.2	500	3000	Drawing 3
Φ 10×12.5	400	2400	Drawing 3

10、 Fixing 安装

Recommend land size 建议安装尺寸

		mm			
尺寸	Size	X	Y	a	
φ4	φ4	1.6	2.6	1.0	
φ5	φ5	1.6	3.0	1.4	
φ6.3	φ6.3	1.6	3.5	2.1	
φ8	φ8	2.5	3.5	3.0	
φ10	φ10	2.5	4.0	4.0	

■ 回流焊温度与时间曲线 Temperature/ Time profile



■ 不同壳号的焊接温度及时间 Allowable Range of Peak Temperature

Size	T(°C)	t (second)	t ₁ (second)
φ4~φ6.3	255	100	50
φ8	245	100	40
φ10	245	100	40

- Preheat shall be done at 100°C~200°C and for maximum 180 seconds.
100~200°C的预热时间不超过 180 秒。
- If capacitors are subject to the conditions other than the allowable range of reflow , please contact to us.
如果电容器承受的条件与回流焊的允许范围不同, 请与我们联系。

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[50SGV1M4X6.1](#) [SC1C476M05005VR](#) [SC1E107M0806BVR](#) [SC1E227M08010VR](#) [SC1H106M05005VR](#) [SC1H106M6L005VR](#)
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[TYEH1H475E55MTR](#) [6.3SEV22M4X5.5](#) [6.3SEV47M4X5.5](#) [EEEFK1H151GP](#) [EEEFK1A681GP](#) [EEE0GA471XP](#) [EEEFK1V151GP](#)
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[GYA1V271MCQ1GS](#) [VZH-100M1ETR-0406](#)